

Patent Application of Mark W. Reents for "Convertible Hard Cap" continued – Page 20

CLAIMS: I Claim:

1. 1. A rigid convertible cap apparatus for a open bed vehicle or pick-up truck bed length, width and height the open bed having longitudinally spaced apart forward and rearward ends, said apparatus comprising:

A plurality of manual and powered movable independent rigid cap sections comprising a fixed and movable vertically adjustable overlapping or sandwiching opposing side walls and a wall connecting top or roof said independent cap sections are continuously positional at a number of continuously variable vertical locations, said independent cap sections extend and contract integrally in an successive overlapping or sandwiching manner being longitudinally movable relative to said open bed and continuously positional at a number of continuously variable longitudinal locations, at least one said independent cap section portion further including a fixed and vertically adjustable end wall or front wall continuously positional at a number of continuously variable vertical locations, and at least one independent cap section portion further including a cap door in conjunction with a access opening therein for providing access to the interior of said apparatus at any continuously variable longitudinal locations;

track means securable to said vehicle and said independent cap sections a number of said track or guide members sliably engageable with said track means for vertical and longitudinal movement relative thereto, said independent cap sections being interconnected with at least one of said slide members is sliably and telescopically movable generally along said track means;

door means pivotally connected to at least one said independent cap section end portion of said enclosure means generally adjacent said access opening thereon and being longitudinally movable therewith said door means being pivotally movable and substantially covers said access opening, said door means further including door latching means for selectively and releasably securing said door.

Patent Application of Mark W. Reents for "Convertible Hard Cap" continued – Page 21

2. Said cap door in claim 1 is pivotally movable wherein a open door position is generally away from said access opening and a closed door position wherein said door means substantially covers said access opening, said door means further including said door latching means for selectively and releasably securing said door.
3. Said rigid convertible cap apparatus of claim 1 convertibility means to predetermine limits by a plurality of said tracks or guides to integrally shuttle, lock and secure said independent cap sections thereof and to said bed.
4. Said rigid convertible cap apparatus of claim 1 wherein said side walls are opposing and rise above the height of a bed rail to predetermined height and width wherein the roof or top interconnects opposing side walls and said end wall or said cap door of at least one said independent cap section.
5. Said independent cap section(s), said end wall or front wall and said cap door(s) of claim 4 are made of rigid material and in combination thereof can consist of translucent or transparent material so that the user may have viewing and ventilation means.
6. Said rigid convertible cap apparatus for said open bed vehicle of claim 1 convertibility means to predetermine limits by a plurality of said independent tracks or guides to integrally shuttle, lock and secure said independent cap sections to each said independent cap section and to said vehicle.
7. Said rigid convertible cap apparatus for said open bed vehicle of claim 1 comprises of a embodiment(s) variations comprising: an basic embodiment, an powered convertible hard cap embodiment, an advanced vertical cap embodiment, an accessory embodiment, and a smooth convertible hard cap embodiment.

Patent Application of Mark W. Reents for "Convertible Hard Cap" continued – Page 22

8. Said embodiment(s) in claim 7 convertibility means heretofore described through said embodiment(s) and through the combination thereof.
9. Said basic embodiment of claim 7 consist of said fixed side walls wherein said independent cap sections are each successively smaller in dimension so that a successively layered effect is apparent for extension and contraction convertibility means respectively with plurality of said tracks and guides.
10. Said powered convertible hard cap of claim 7 whereby power convertibility means longitudinal contraction and extension of said independent cap sections respectively with plurality of said guides or tracks.
11. Said advanced vertical hard cap embodiment of claim 7 whereby convertibility means said side walls are vertically adjustable through vertical contraction and extension of said side walls respectively with plurality of said tracks and guides.
12. Said accessory embodiment of claim 7 whereby said independent cap sections and plurality of said tracks or guides are substantially disposed to further dimension so that a truck bed tool box and further truck accessory use may be employed by the user.
13. Said smooth convertible hard cap embodiment of claim 7 whereby at full extension or complete enclosure convertibility respectively with plurality of said track and guides said independent cap sections are of same dimensions thereby providing a smooth exterior and interior appearance.

Whereby during contrary weather conditions the occupant of said open bed vehicle can suddenly and conveniently vertically and longitudinally adjust said rigid convertible cap enclosure apparatus for the desired partial or complete opening or enclosure of said open bed without compromising complete said bed or bed floor usage.

Patent Application of Mark W. Reents for "Convertible Hard Cap" continued – Page 23

Whereby said embodiments or combination of said embodiments of said rigid convertible cap apparatus can contract and expand integrally by manual and power manipulation or urging as a device for said rigid convertible covering apparatus in order to give the user a new and advanced freedom of said open bed vehicle cover protection.